



STATE OF WASHINGTON
STATE BUILDING CODE COUNCIL

May 2018
Log No. _____

1. State Building Code to be Amended:

- ☐ International Building Code
- ☐ ICC ANSI A117.1 Accessibility Code
- ☐ International Existing Building Code
- ☒ International Residential Code
- ☐ International Fire Code
- ☐ Uniform Plumbing Code

- ☐ International Mechanical Code
- ☐ International Fuel Gas Code
- ☐ NFPA 54 National Fuel Gas Code
- ☐ NFPA 58 Liquefied Petroleum Gas Code
- ☐ Wildland Urban Interface Code

For the Washington State Energy Code, please see specialized [energy code forms](#)

Section(s):

Chapter 2 Definitions
M1905 (new)

Title:

Electric Vehicle - Ready Equipment

2. Proponent Name (Specific local government, organization or individual):

Proponent: Kathleen Petrie

Title: Program Manager Green Building Communitywide

Date: 4-8-22

3. Designated Contact Person:

Name: Kathleen Petrie

Title: Program Manager Green Building Communitywide

Address: 201 S. Jackson St, Suite 5701, Seattle WA 98104

Office Phone: (206) 477-2482

Cell: ()

E-Mail address: kpetrie@kingcounty.gov

- 4. Proposed Code Amendment.** Reproduce the section to be amended by underlining all added language, striking through all deleted language. Insert new sections in the appropriate place in the code in order to continue the established numbering system of the code. If more than one section is proposed for amendment or more than one page is needed for reproducing the affected section of the code, additional pages may be attached.

Clearly state if the proposal modifies an existing amendment or if a new amendment is needed. If the proposal modifies an **existing amendment**, show the modifications to the existing amendment by underlining all added language and striking through all deleted language. If a new amendment is needed, show the modifications to the **model code** by underlining all added language and striking through all deleted language.

| Code(s) | IRC | Section(s) |
|---------|-----|-----------------------|
| | | Chapter 2 Definitions |
| | | M1905 (new) |

Enforceable code language must be used.
Amend section to read as follows:

CHAPTER 2 DEFINITIONS

Electric Vehicle Supply Equipment. The conductors, including the ungrounded, grounded, and equipment grounding conductors, and the electric vehicle connectors, attachment plugs, personnel protection system, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electrical vehicle.

CHAPTER 19 SPECIAL APPLIANCES, EQUIPMENT AND SYSTEMS

M1905 ELECTRIC VEHICLE SUPPLY EQUIPMENT

M1905.1 Electric Vehicle supply equipment for new construction. The provisions of this section shall apply to the construction of new one- and two-family dwellings and townhomes with attached private garages and attached private carports.

M1905.1.1 Electric Vehicle supply equipment. Electric vehicle supply equipment shall be installed for each required parking space, in accordance with the National Electrical Code, Article 625.

- 5. Briefly explain your proposed amendment, including the purpose, benefits and problems addressed.** Specifically note any impacts or benefits to business, and specify construction types, industries and services that would be affected. Finally, please note any potential impact on enforcement such as special reporting requirements or additional inspections required.

Washington is a zero-emission vehicle state (ZEV). This means that 100% of car sales by 2030 will be electric vehicles. It is necessary to equip new homes with the infrastructure to charge these vehicles. To require the apparatus between the panel and the charging outlet will be much less costly at the time of construction vs. having to alter the building later.

6. Specify what criteria this proposal meets. You may select more than one.

- ☐ The amendment is needed to address a critical life/safety need.
- ☐ The amendment clarifies the intent or application of the code.
- ☐ The amendment is needed to address a specific state policy or statute.
- ☒ The amendment is needed for consistency with state or federal regulations.
- ☐ The amendment is needed to address a unique character of the state.
- ☐ The amendment corrects errors and omissions.

7. Is there an economic impact: ☒ Yes ☐ No

If no, state reason:

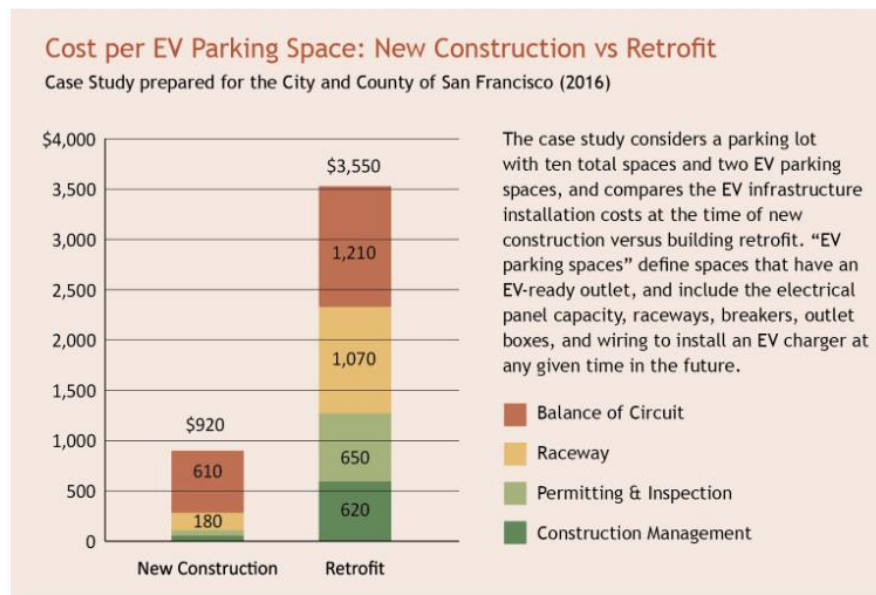
If yes, provide economic impact, costs and benefits as noted below in items a – f.

- a. **Life Cycle Cost.** Use the OFM Life Cycle Cost [Analysis tool](#) to estimate the life cycle cost of the proposal using one or more typical examples. Reference these [Instructions](#); use these [Inputs](#). Webinars on the tool can be found [Here](#) and [Here](#)). If the tool is used, submit a copy of the excel file with your proposal submission. If preferred, you may submit an alternate life cycle cost analysis.
- b. **Construction Cost.** Provide your best estimate of the construction cost (or cost savings) of your code change proposal.

\$[Click here to enter text](#)./square foot

(For residential projects, also provide \$790/ dwelling unit)

Show calculations here, and list sources for costs/savings, or attach backup data pages



Source: Plug-In Electric Vehicle Infrastructure Cost-Effectiveness Report for San Francisco

<http://evchargingpros.com/wp-content/uploads/2017/04/City-of-SF-PEV-Infrastructure-Cost-Effectiveness-Report-2016.pdf>

- c. ***Code Enforcement.*** List any code enforcement time for additional plan review or inspections that your proposal will require, in hours per permit application: Impacts are nominal to review and inspect.
- d. ***Small Business Impact.*** Describe economic impacts to small businesses: None
- e. ***Housing Affordability.*** Describe economic impacts on housing affordability: This proposal makes it more cost effective if the infrastructure is already installed in a new building. It may impact the cost of new construction minimally.
- f. ***Other.*** Describe other qualitative cost and benefits to owners, to occupants, to the public, to the environment, and to other stakeholders that have not yet been discussed: This will help to reduce greenhouse gas emissions and is in alignment with the Zero Emission Vehicle State requirements.

Please send your completed proposal to: sbcc@des.wa.gov

All questions must be answered to be considered complete. Incomplete proposals will not be accepted.